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Appl. No. 10/066,250 Amdt. dated January 29, 2004 Reply to Office action of January 8, 2004

Amendments to the Claims

- 1. (amended) A <u>solvent extraction free, caustic refining free,</u> process for producing soybean oil from soybeans comprising:
 - a) heating said soybeans to at least 300°F;
- b) mechanically pressing said soybeans to separate soybean oil from soybean meal; and
- c) heating said soybean oil to a temperature of from about 450°F to about 500° F under a vacuum to remove free fatty acids from said soybean oil.
- 2. (original) The process of claim 1, wherein said soybeans are heated to at least 300°F in less than about 60 seconds.
- 3. (original) The process of claim 1, wherein said soybeans are crushed while being frictionally heated to a temperature of from about 300°F to about 370°F.
- 4. (original) The process of claim 1, further including degumming said soybean oil following pressing.
- 5. (original) The process of claim 1, further including bleaching said soybean oil following pressing.
- 6. (original) The process of claim 1, including the step of crushing said soybeans while said soybeans are being heated.
- 7. (original) The process of claim 1, wherein said soybean oil is heated under a vacuum at a temperature of from about 460°F to about 480°F.

- 8. (original) A solvent extraction free, caustic refining free, process for producing non-hydrogenated soybean oil having an improved frylife comprising:
 - a) heating said soybeans to a temperature of at least 300°F in less than 60 seconds;
 - b) crushing said soybeans to form a mixture of soybean meal and soybean oil;
 - c) pressing said mixture to separate soybean oil from said soybean meal; and
- under a vacuum to remove free fatty acids from said soybean oil.
- 9. (original). The process of claim 8, wherein said soybean oil is degummed and bleached after pressing.
- 10. (original). The process of claim 8, wherein said soybean oil is crushed while frictionally heating said soybeans.
- 11. (original). The process of claim 8, wherein said soybeans are heated to a temperature of from about 315°F to about 335°F.
- 12. (original). The process of claim 8, wherein said soybeans are crushed while being frictionally heated.
- 13. (original). The process of claim 12, wherein said soybeans are crushed in less than 30 seconds, while being frictionally heated to a temperature of from about 315°F to about 335°F.
- 14. (original). The process of claim 8, wherein said soybean oil is heated under a vacuum at a temperature of from about 460°F to about 480°F.
 - 15. (withdrawn) Soybean oil produced by the process of claim 1.
 - 16. (withdrawn) Soybean oil produced by the process of claim 8.
- 17. (new) A solvent extraction free, caustic refining free, process for producing non-hydrogenated soybean oil having a frylife of at least 30 fry cycles comprising:

- a) crushing said soybeans in less than 30 seconds while frictionally heating said soybeans to a temperature of at least about 300°F to form a mixture of soybean meal and soybean oil containing free fatty acids;
 - b) pressing said mixture to separate soybean oil from said mixture; and
- c) heating said soybean oil to a temperature of from about 450° F to about 500° F under a vacuum to remove free fatty acids from said-soybean oil.
- 18. (new) The process of claim 17, wherein said soybeans are frictionally heated to a temperature of from about 315°F to about 335°F.
- 19. (new) The process of claim 17, wherein said soybean oil is heated under a vacuum at a temperature of from about 460°F to about 480°F.
- 20. (new) The process of claim 17, further including degumming and bleaching said soybean oil following pressing.